



Appendix D

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: AAWireless Mini

Test Model: AMP

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





D.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	29.448	---	Pass
NVNT	a	5200	Ant1	28.558	---	Pass
NVNT	a	5240	Ant1	25.24	---	Pass
NVNT	n20	5180	Ant1	27.664	---	Pass
NVNT	n20	5200	Ant1	26.097	---	Pass
NVNT	n20	5240	Ant1	29.11	---	Pass
NVNT	n40	5190	Ant1	45.044	---	Pass
NVNT	n40	5230	Ant1	42.968	---	Pass

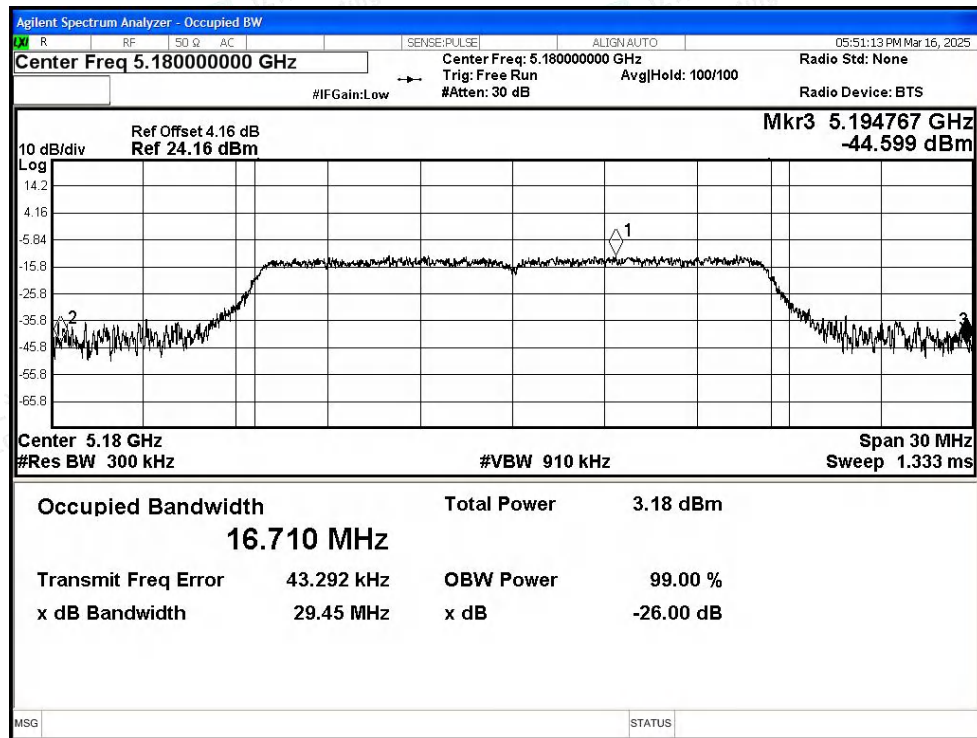


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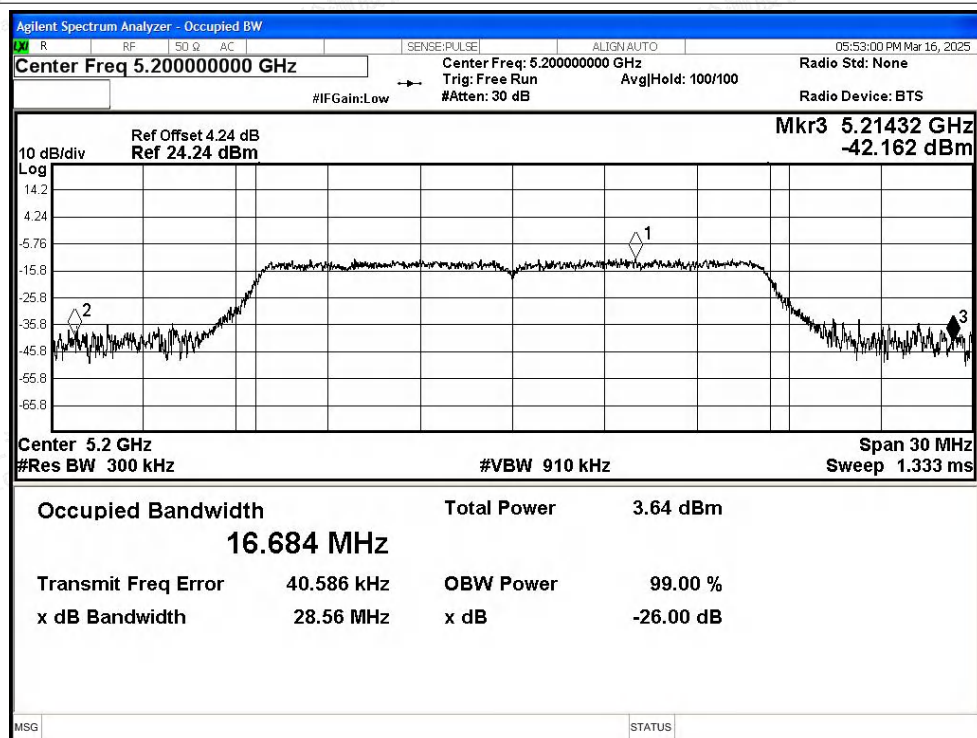


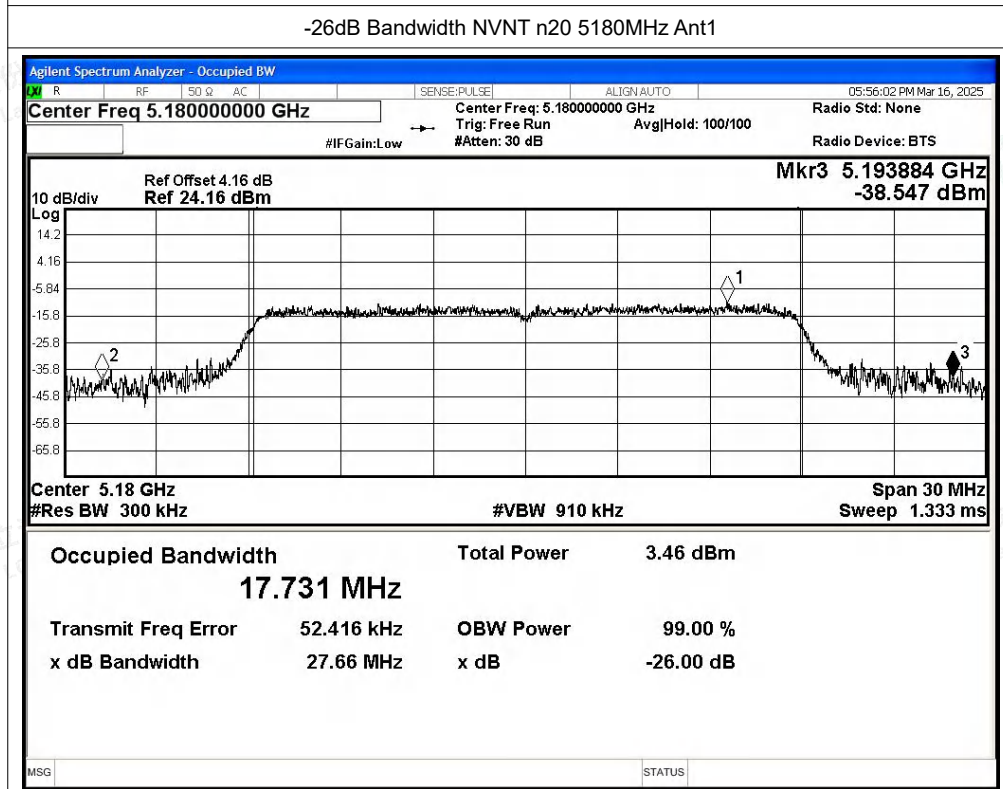
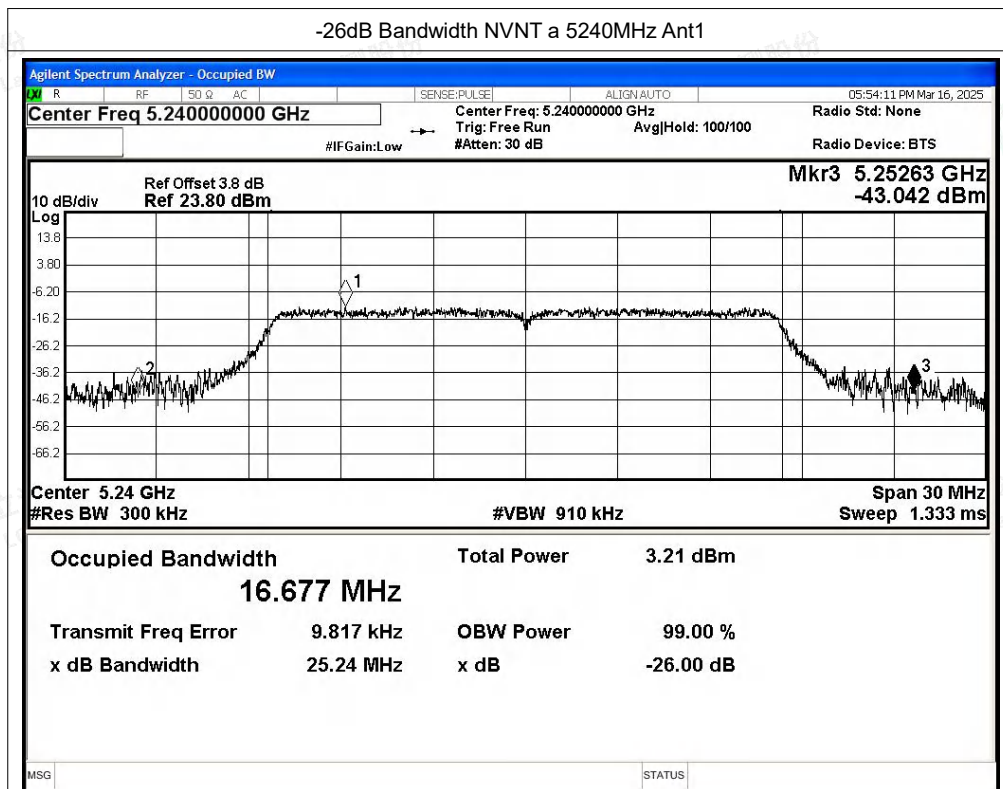
Test Graphs

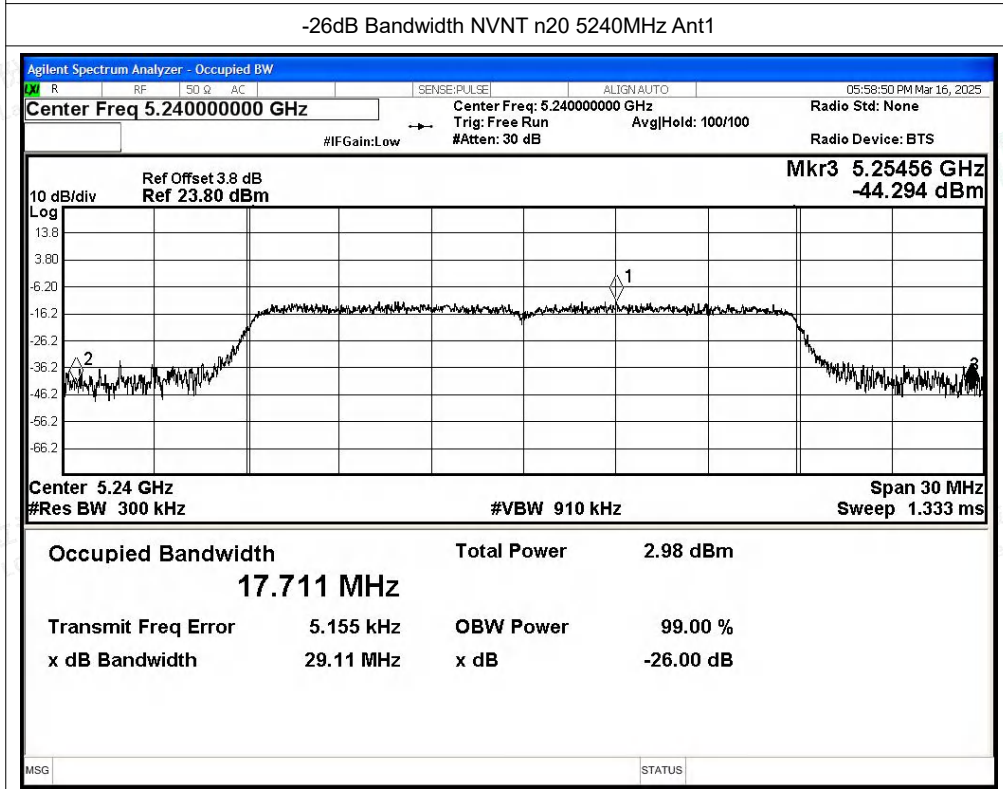
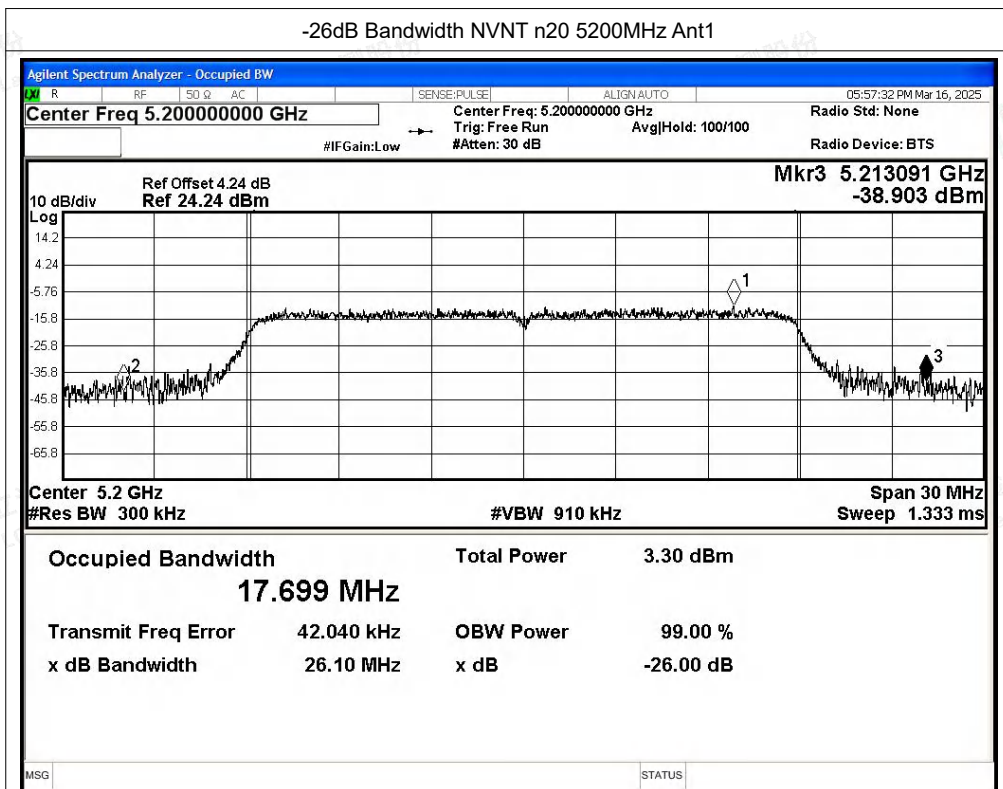
-26dB Bandwidth NVNT a 5180MHz Ant1

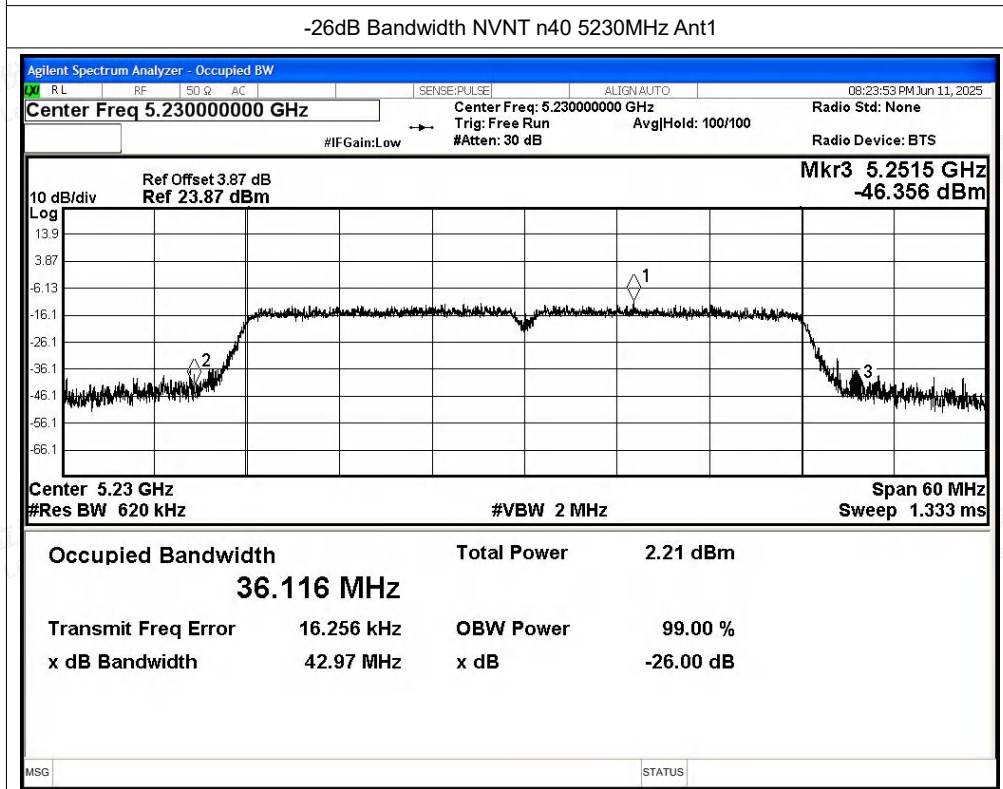
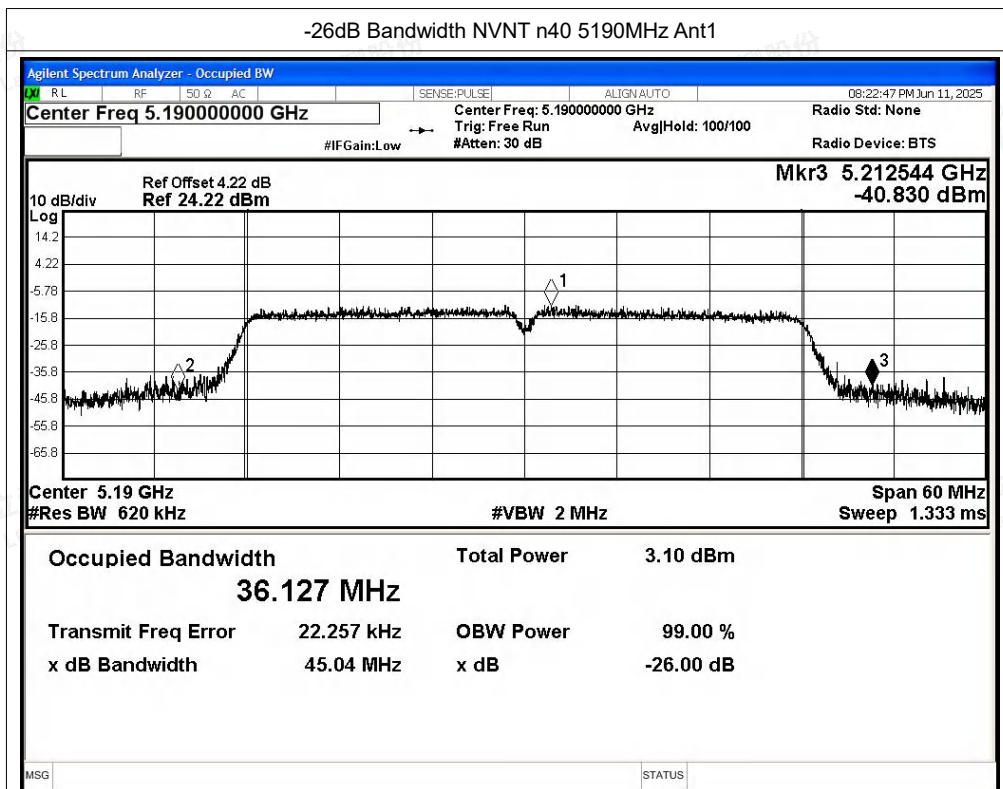


-26dB Bandwidth NVNT a 5200MHz Ant1











D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-5.08	0.24	-4.84	24	Pass
NVNT	a	5200	Ant1	-5.28	0.24	-5.04	24	Pass
NVNT	a	5240	Ant1	-4.55	0.24	-4.31	24	Pass
NVNT	n20	5180	Ant1	-4.58	0.12	-4.46	24	Pass
NVNT	n20	5200	Ant1	-4.84	0.12	-4.72	24	Pass
NVNT	n20	5240	Ant1	-4.23	0.12	-4.11	24	Pass
NVNT	n40	5190	Ant1	-3.88	0.24	-3.64	24	Pass
NVNT	n40	5230	Ant1	-4.29	0.24	-4.05	24	Pass



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D.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	-15.78	0.24	-15.54	11	Pass
NVNT	a	5200	Ant1	-15.95	0.24	-15.71	11	Pass
NVNT	a	5240	Ant1	-15.11	0.24	-14.87	11	Pass
NVNT	n20	5180	Ant1	-15.55	0.12	-15.43	11	Pass
NVNT	n20	5200	Ant1	-15.8	0.12	-15.68	11	Pass
NVNT	n20	5240	Ant1	-14.96	0.12	-14.84	11	Pass
NVNT	n40	5190	Ant1	-17.56	0.24	-17.32	11	Pass
NVNT	n40	5230	Ant1	-18.96	0.24	-18.72	11	Pass

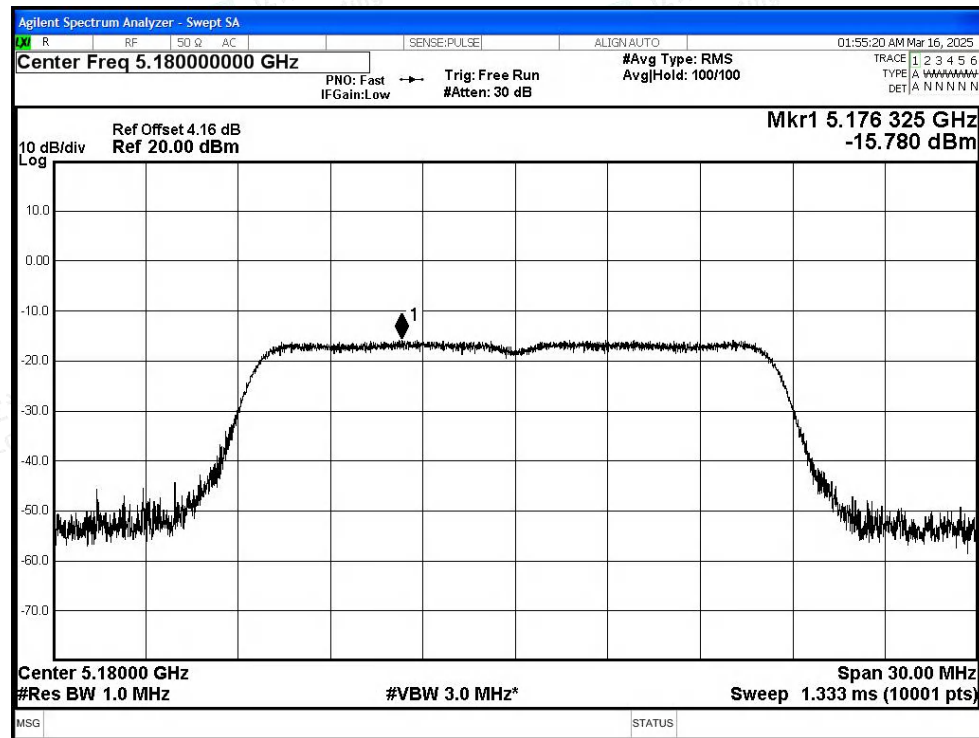


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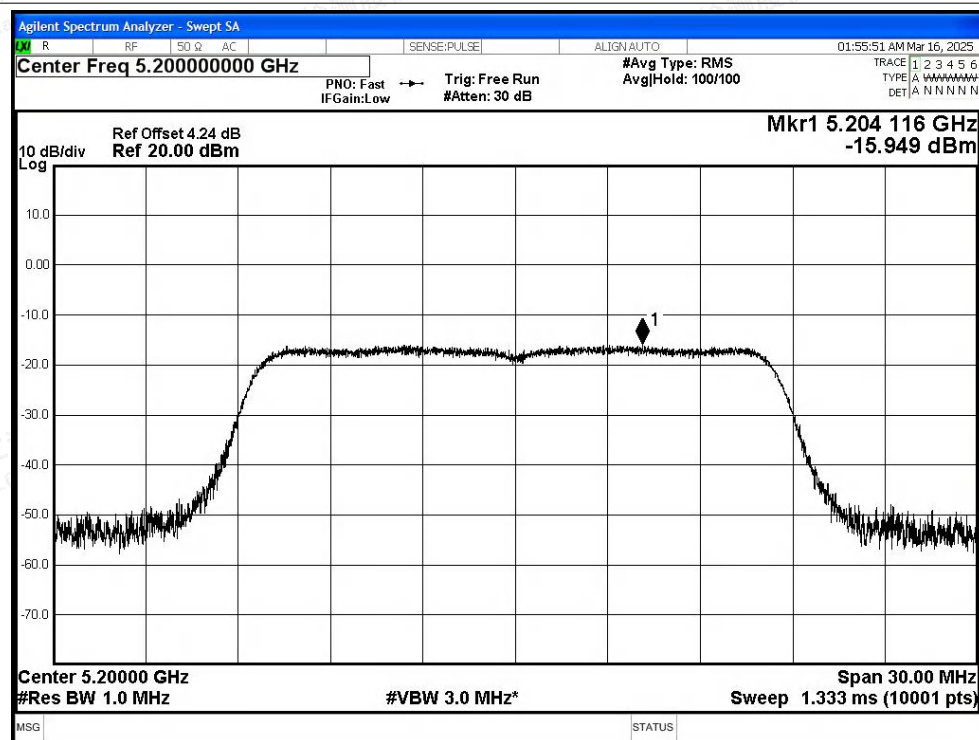


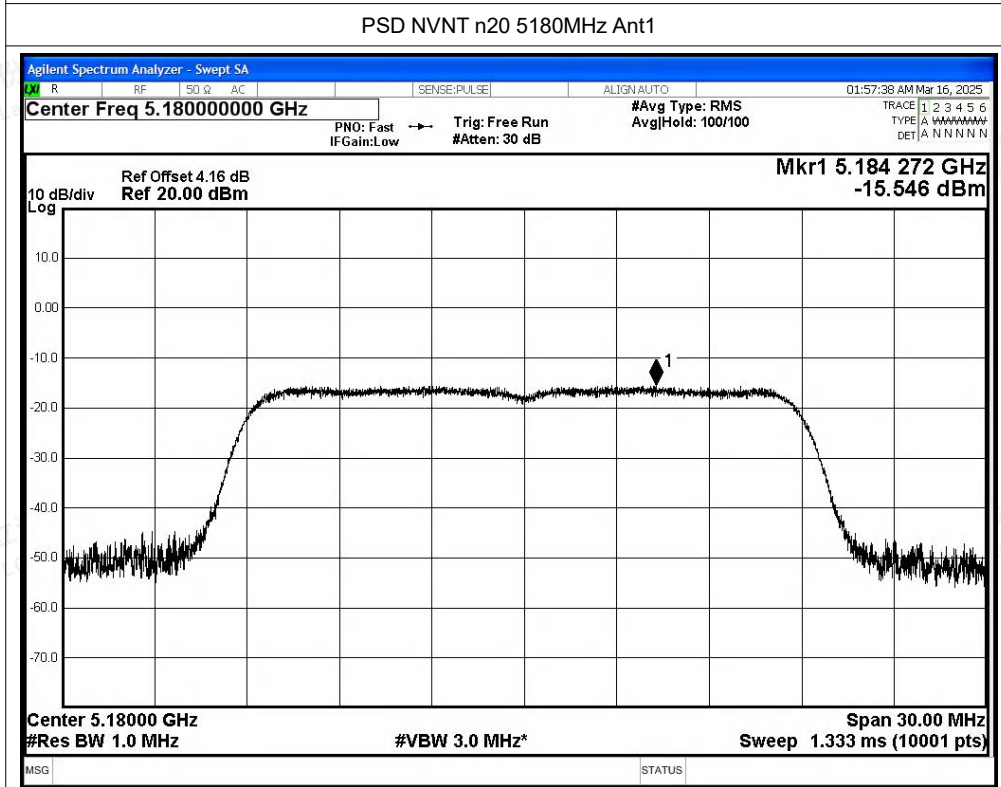
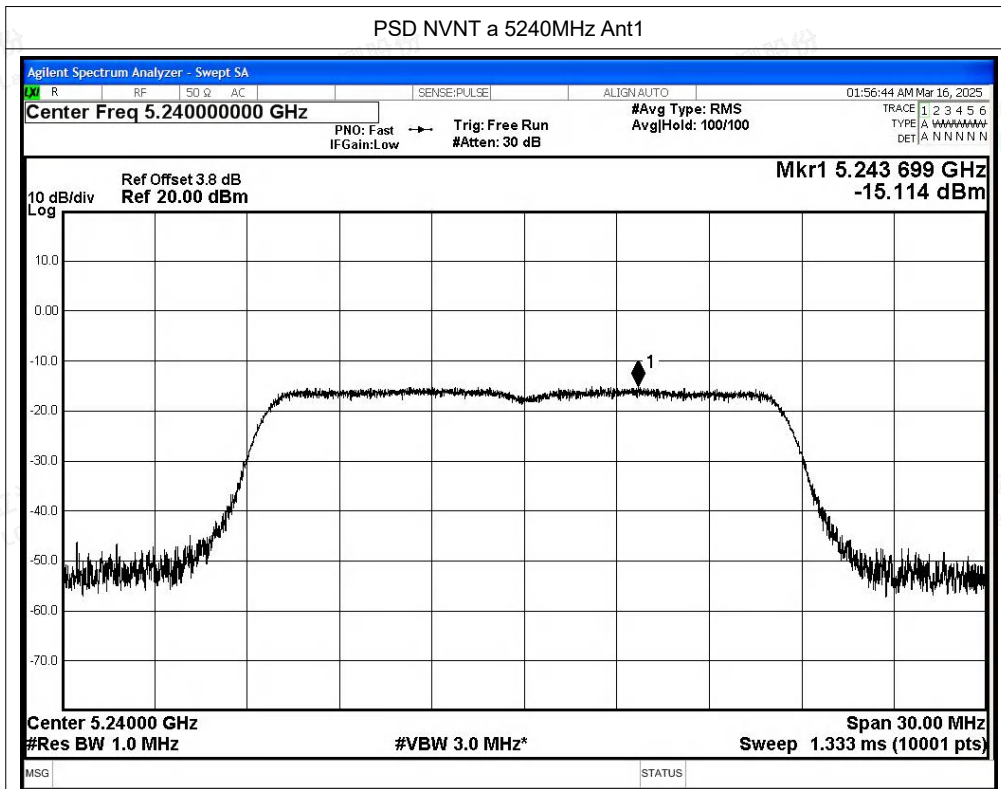
Test Graphs

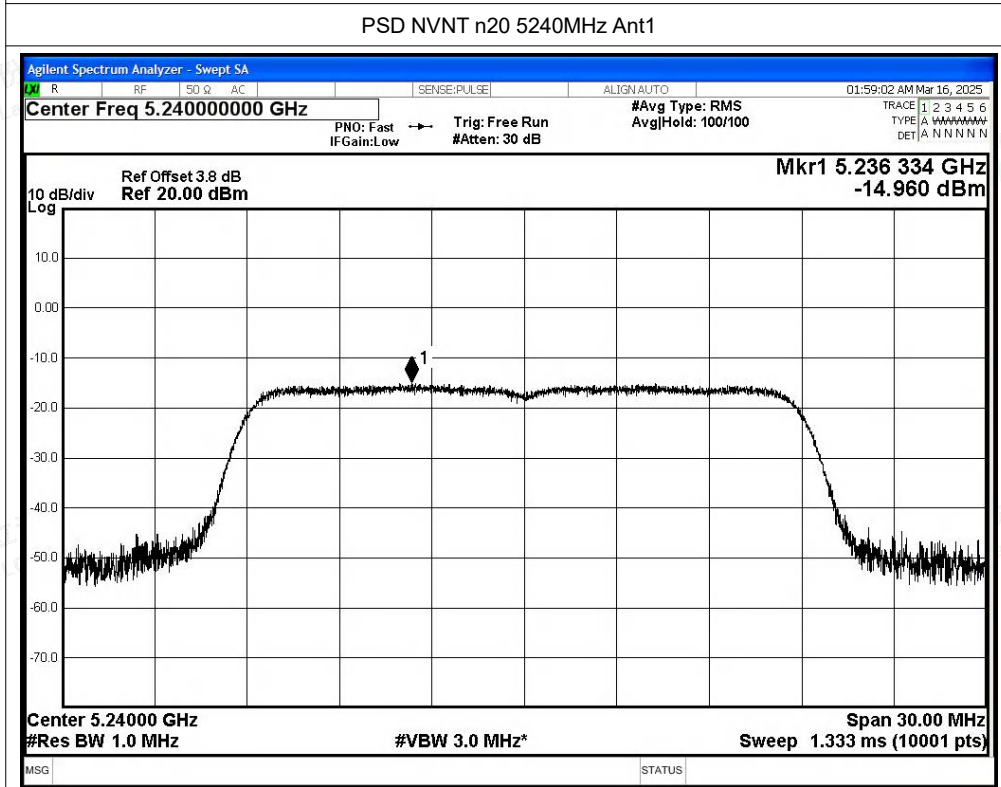
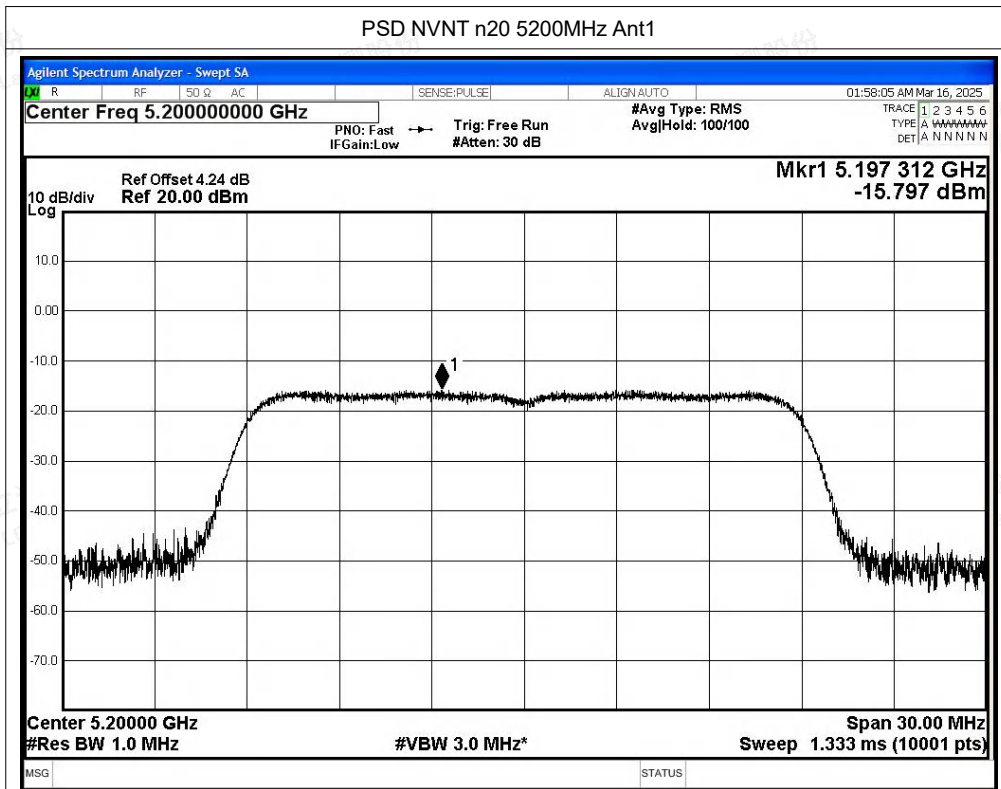
PSD NVNT a 5180MHz Ant1

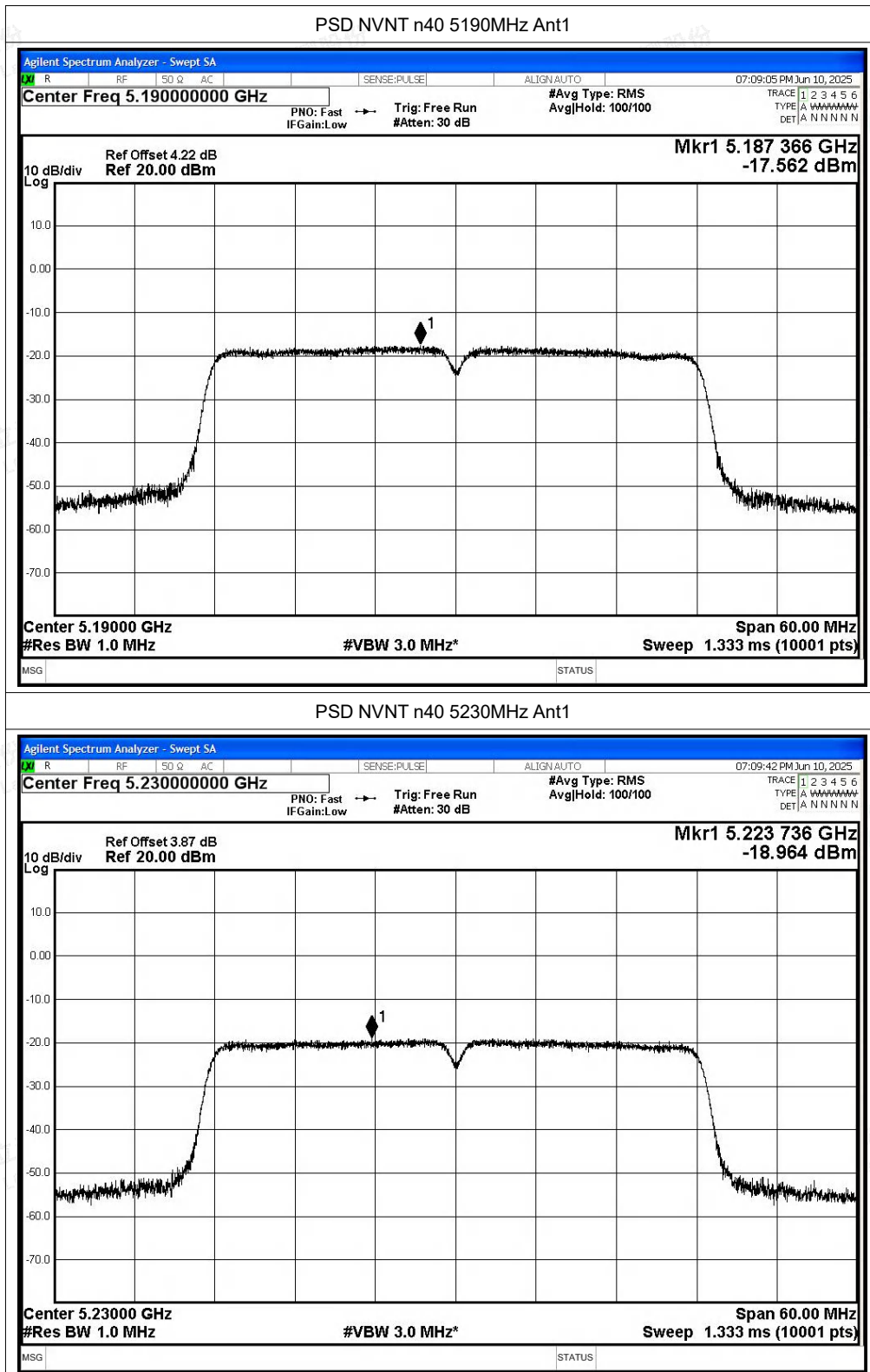


PSD NVNT a 5200MHz Ant1











D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-50.51	2.20	-	46.92	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-57.47	2.20	0.24	40.20	Average	54	Pass
NVNT	a	5180	Ant1	5097.1	-45.34	2.20	-	52.09	Peak	68.2	Pass
NVNT	a	5180	Ant1	5071.2	-55.57	2.20	0.24	42.10	Average	54	Pass
NVNT	a	5180	Ant1	5150	-46.65	2.20	-	50.78	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-56.08	2.20	0.24	41.59	Average	54	Pass
NVNT	a	5240	Ant1	5350	-49.82	2.20	-	47.61	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-56.98	2.20	0.24	40.69	Average	54	Pass
NVNT	a	5240	Ant1	5433.36	-46.57	2.20	-	50.86	Peak	68.2	Pass
NVNT	a	5240	Ant1	5415.84	-56.47	2.20	0.24	41.20	Average	54	Pass
NVNT	a	5240	Ant1	5460	-49.95	2.20	-	47.48	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.05	2.20	0.24	40.62	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.25	2.20	-	48.18	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-58.19	2.20	0.12	39.36	Average	54	Pass
NVNT	n20	5180	Ant1	5130.7	-44.34	2.20	-	53.09	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5063.5	-55.61	2.20	0.12	41.94	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-47.99	2.20	-	49.44	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-55.68	2.20	0.12	41.87	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.49	2.20	-	47.94	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.97	2.20	0.12	40.58	Average	54	Pass
NVNT	n20	5240	Ant1	5403.36	-45.91	2.20	-	51.52	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5364.72	-56.59	2.20	0.12	40.96	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-48.91	2.20	-	48.52	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-57.57	2.20	0.12	39.98	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-49.09	2.20	-	48.34	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-57.68	2.20	0.24	39.99	Average	54	Pass
NVNT	n40	5190	Ant1	5135.1	-45.73	2.20	-	51.7	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5095.68	-55.27	2.20	0.24	42.4	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-47.87	2.20	-	49.56	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-56.1	2.20	0.24	41.57	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-48.06	2.20	-	49.37	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-57.49	2.20	0.24	40.18	Average	54	Pass
NVNT	n40	5230	Ant1	5364.15	-45.58	2.20	-	51.85	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5382.78	-56.32	2.20	0.24	41.35	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-48.62	2.20	-	48.81	Peak	68.2	Pass



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NVNT	n40	5230	Ant1	5460	-57.85	2.20	0.24	39.82	Average	54	Pass
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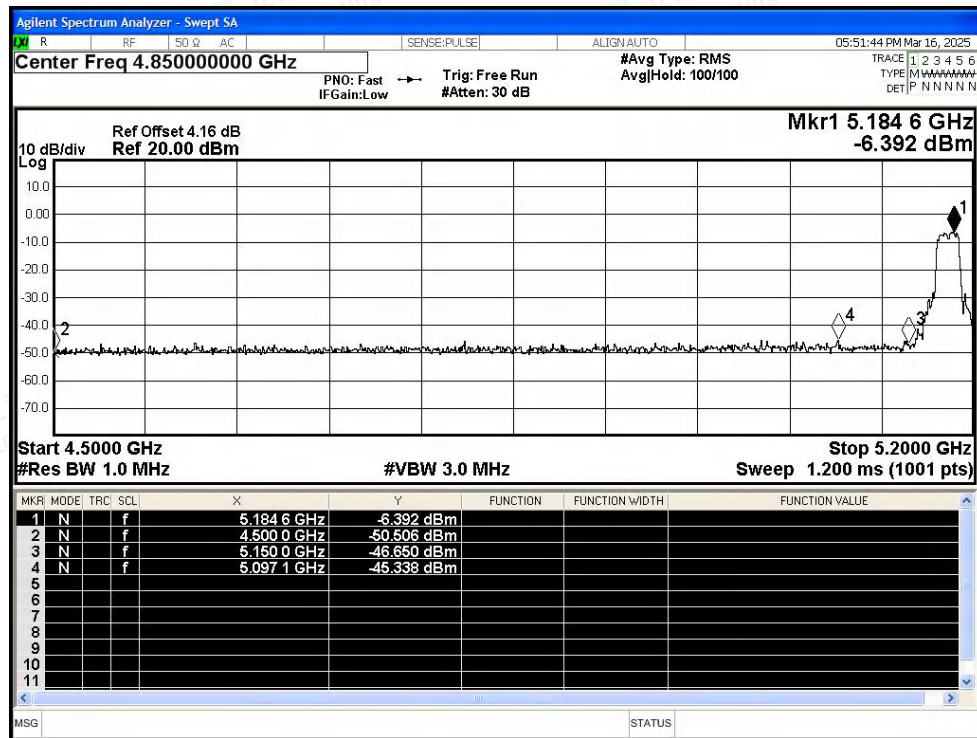


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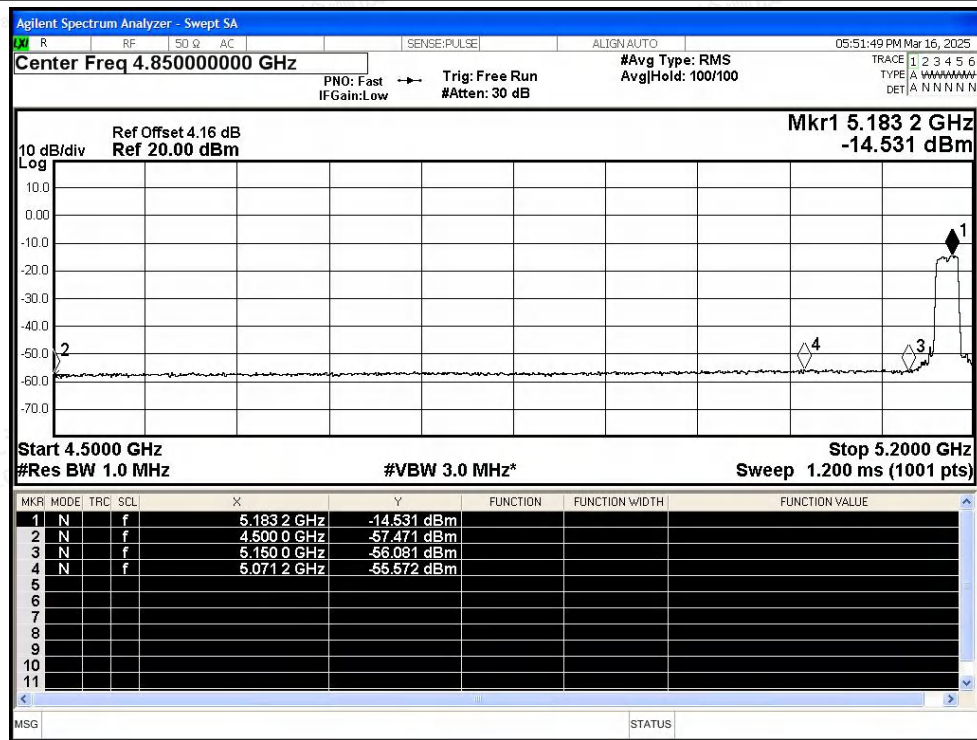


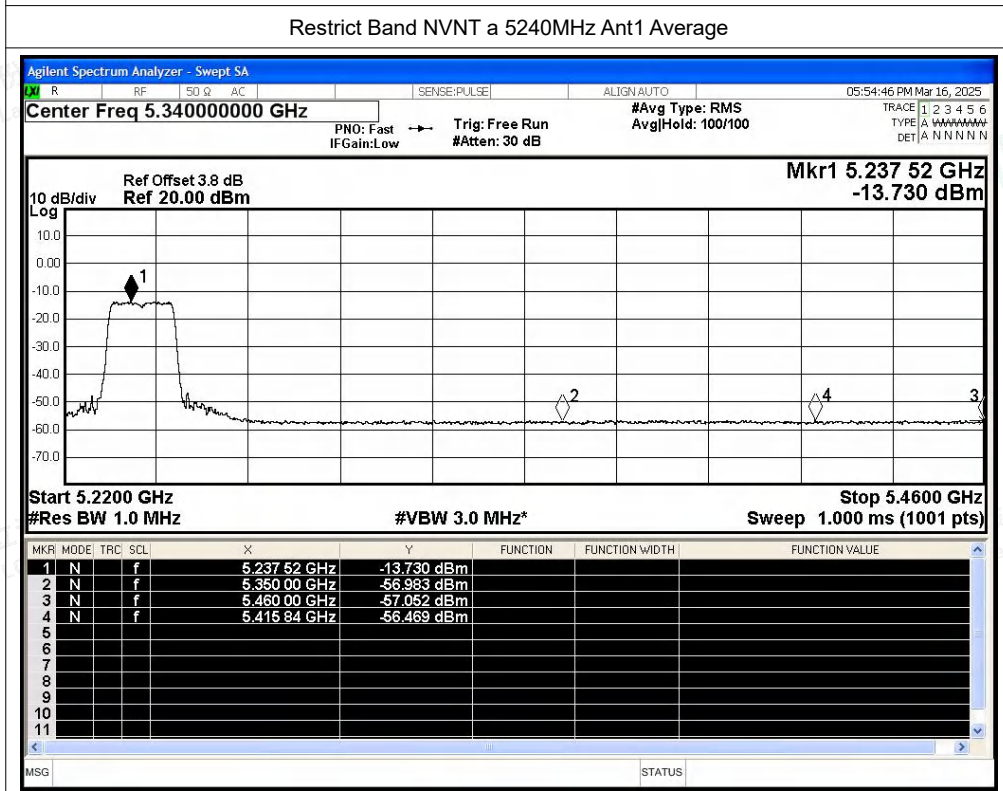
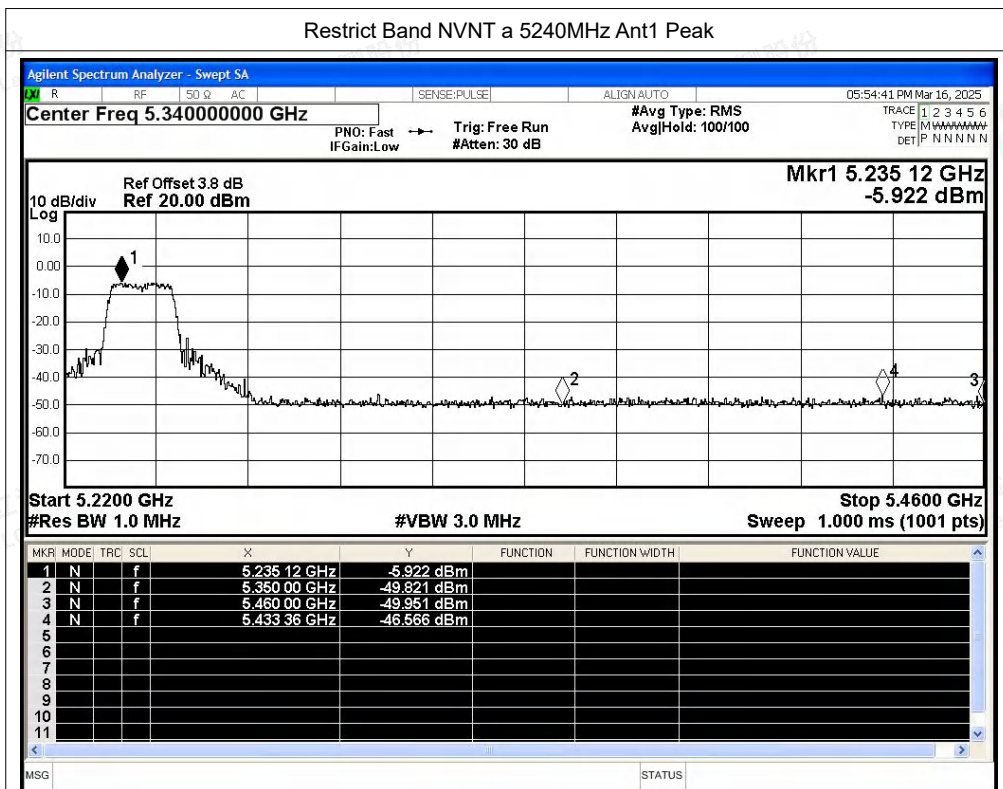
Test Graphs

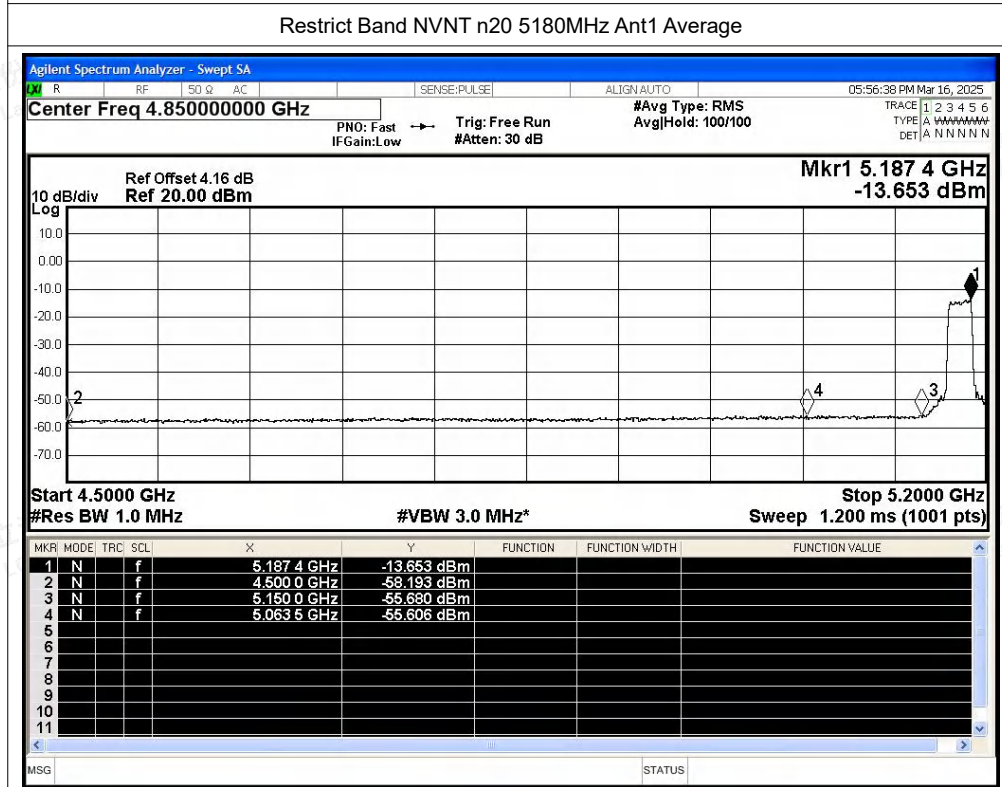
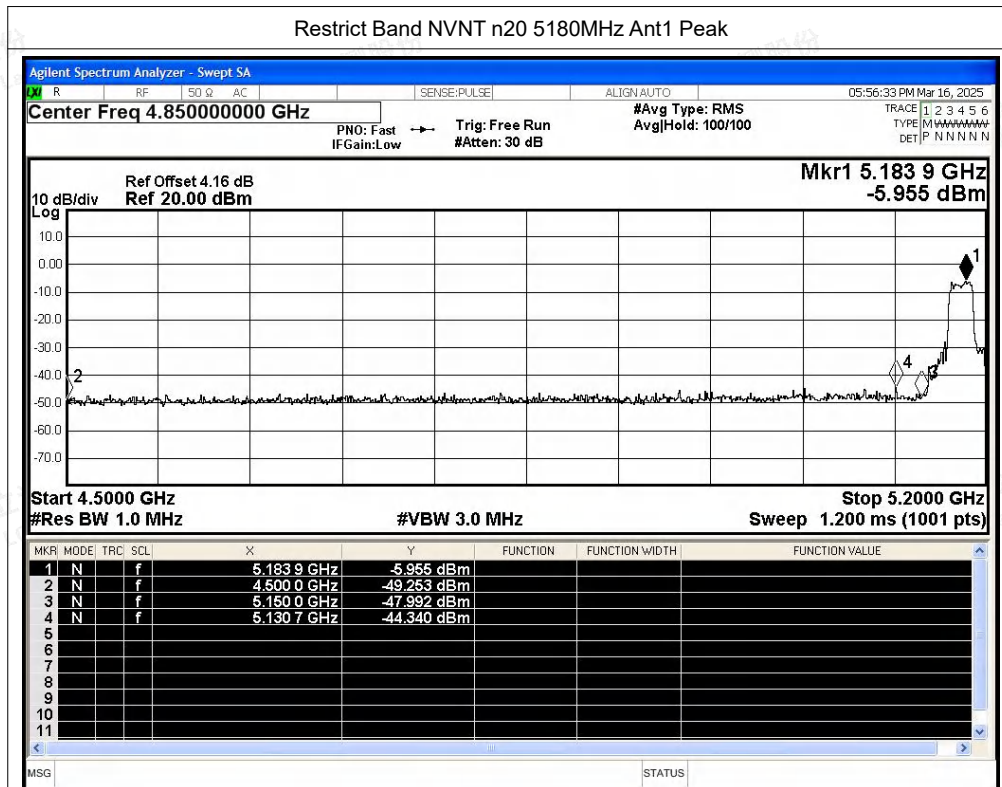
Restrict Band NVNT a 5180MHz Ant1 Peak



Restrict Band NVNT a 5180MHz Ant1 Average

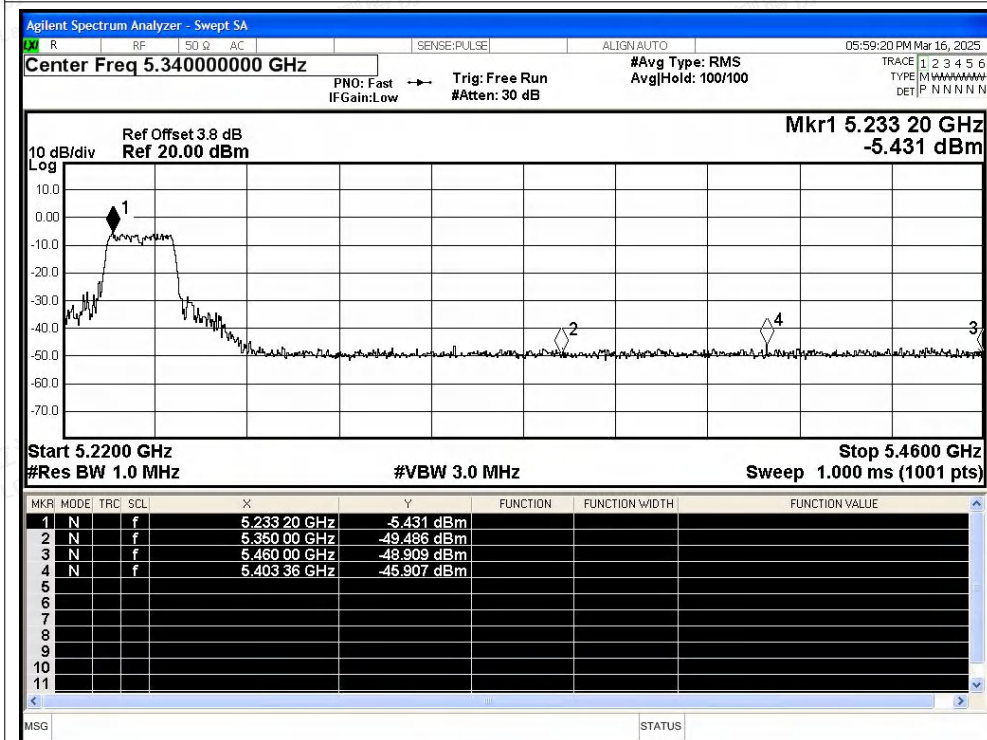




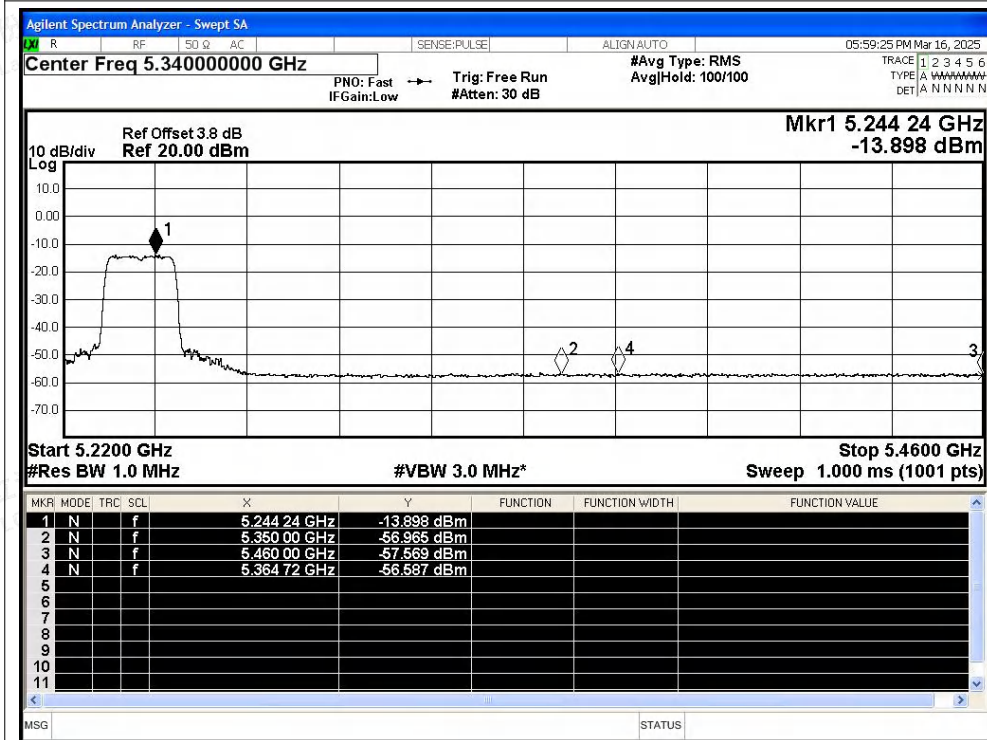


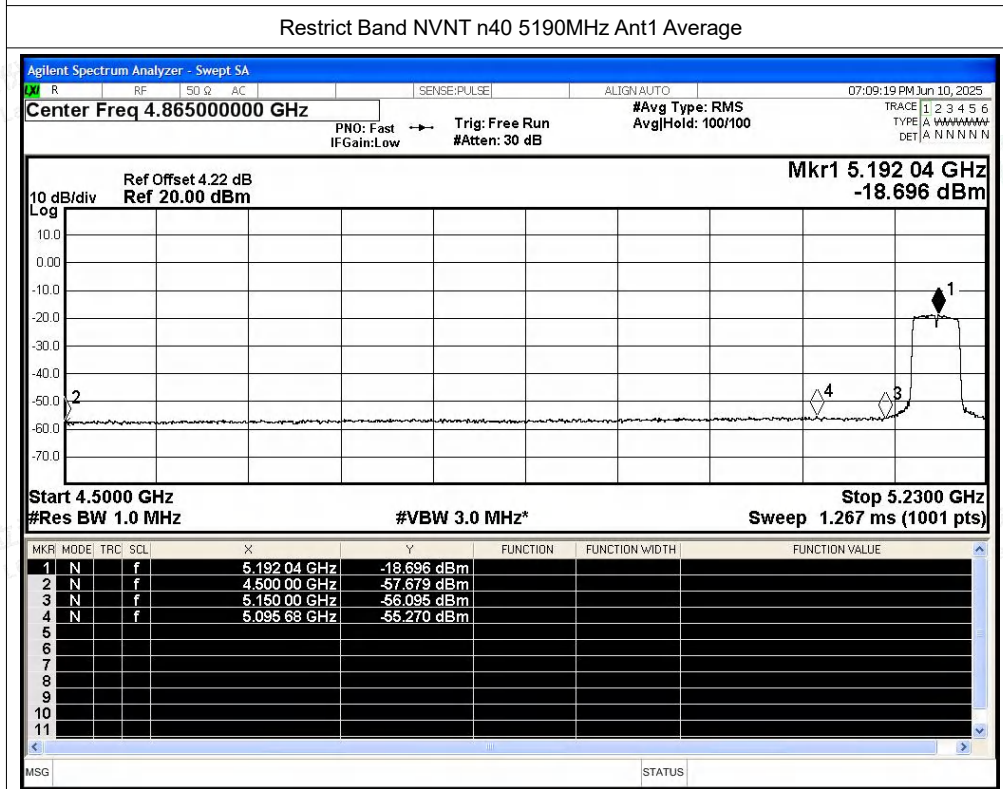
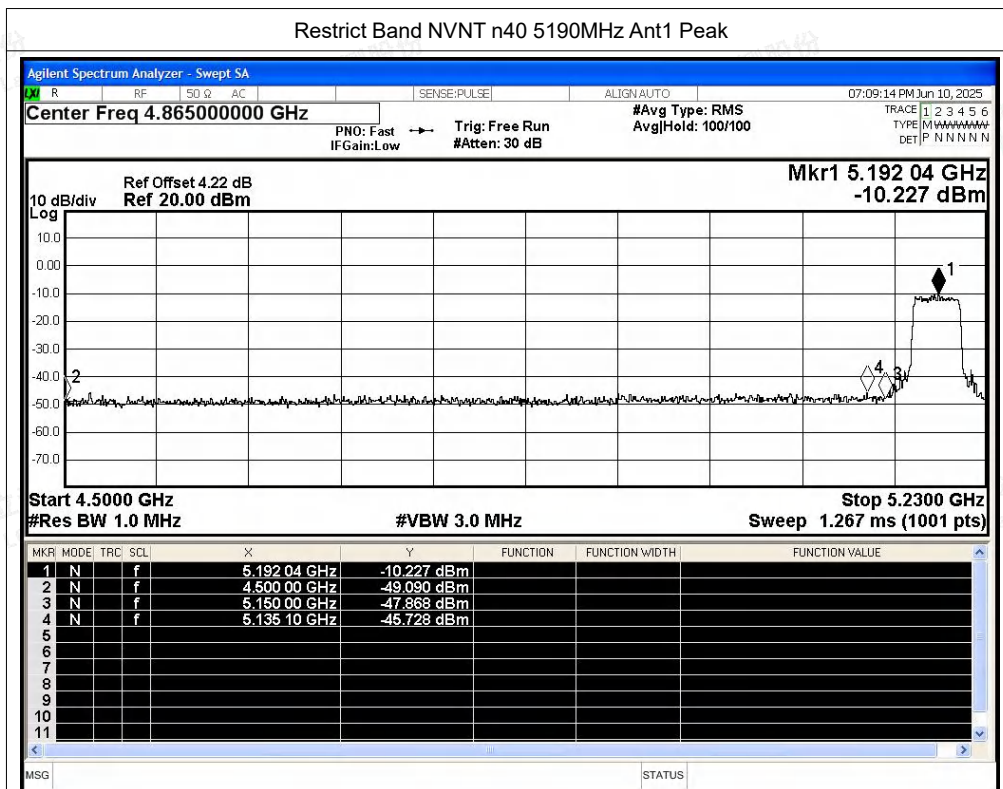


Restrict Band NVNT n20 5240MHz Ant1 Peak



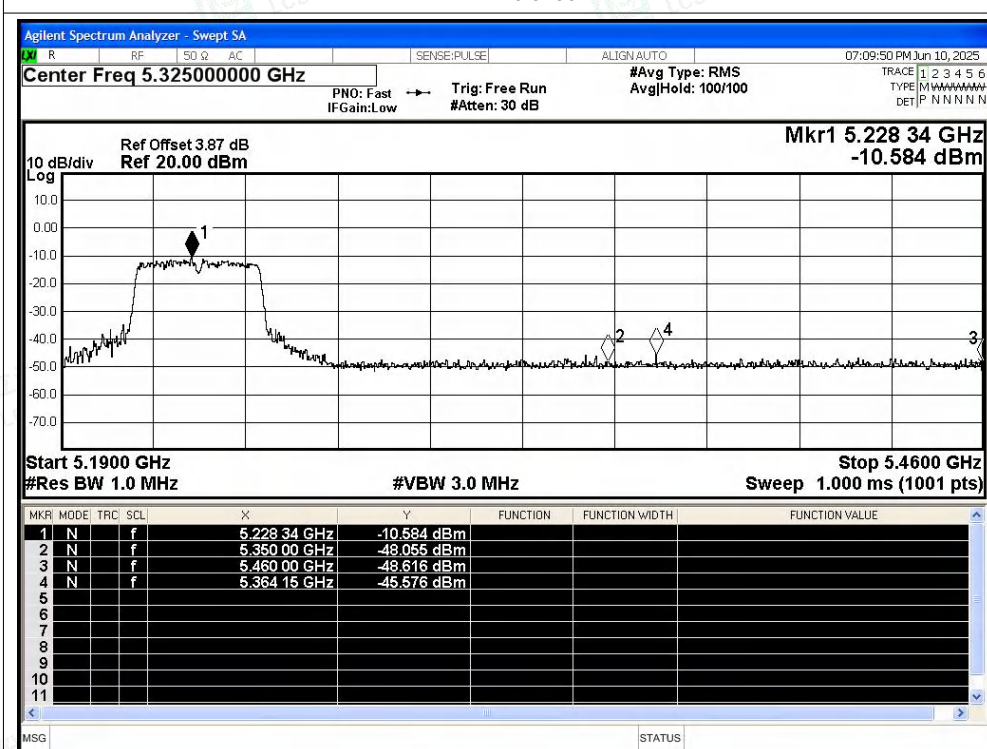
Restrict Band NVNT n20 5240MHz Ant1 Average



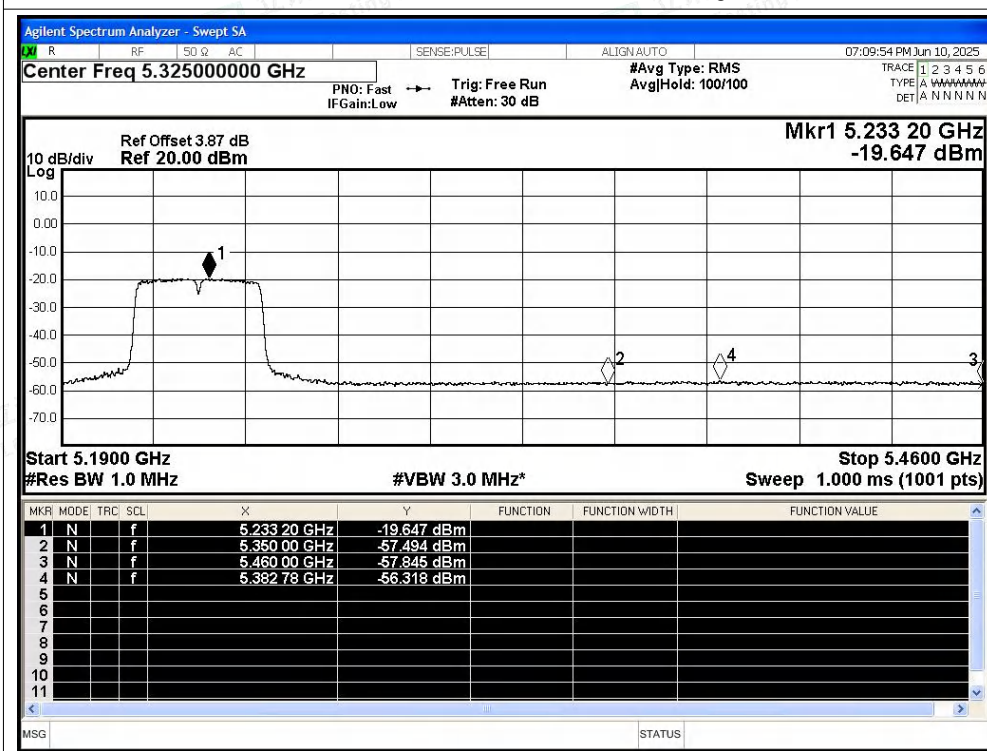




Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average





D.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5180	0	0	25	Pass
NVNT	a	5200	Ant1	5200	0	0	25	Pass
NVNT	a	5240	Ant1	5240	0	0	25	Pass
NVNT	n20	5180	Ant1	5180	0	0	25	Pass
NVNT	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant1	5240	0	0	25	Pass
NVNT	n40	5190	Ant1	5190	0	0	25	Pass
NVNT	n40	5230	Ant1	5230	0	0	25	Pass

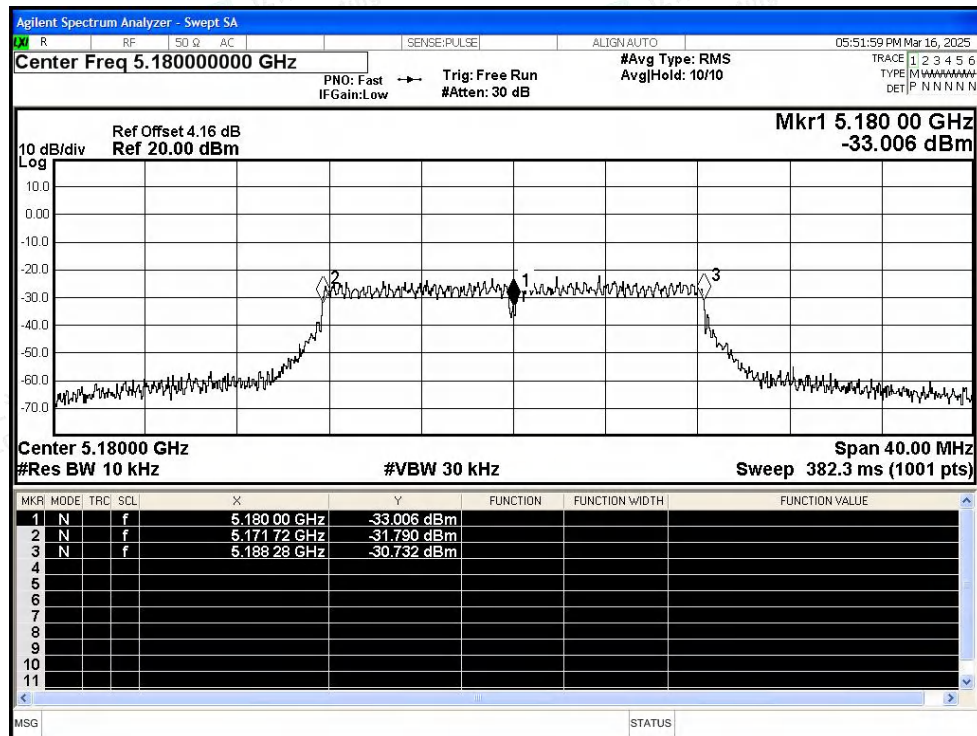


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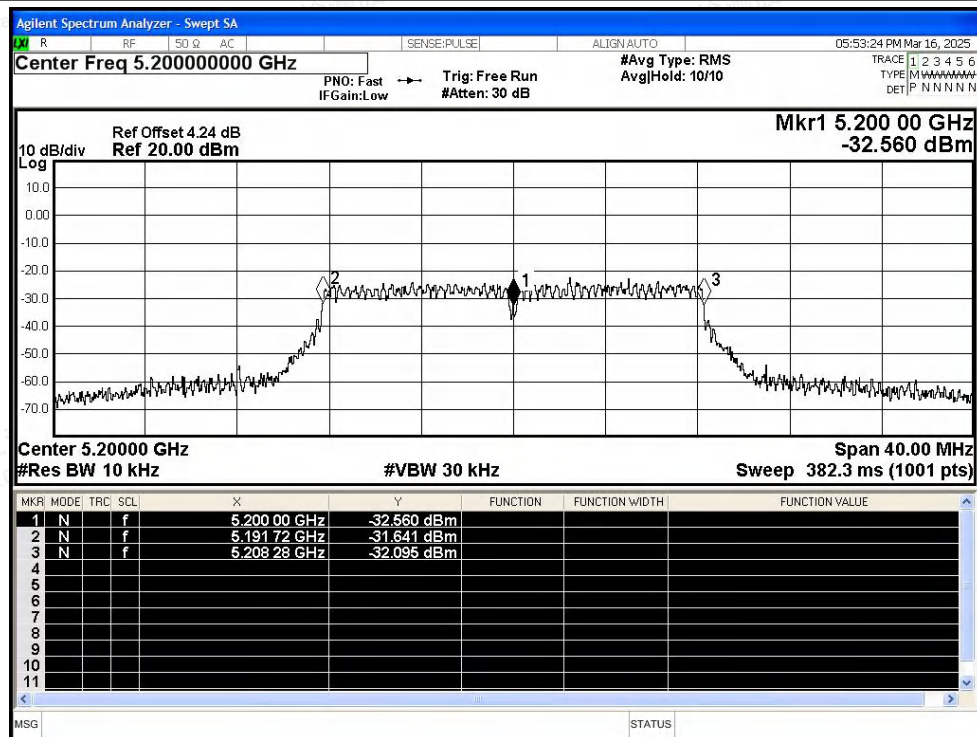


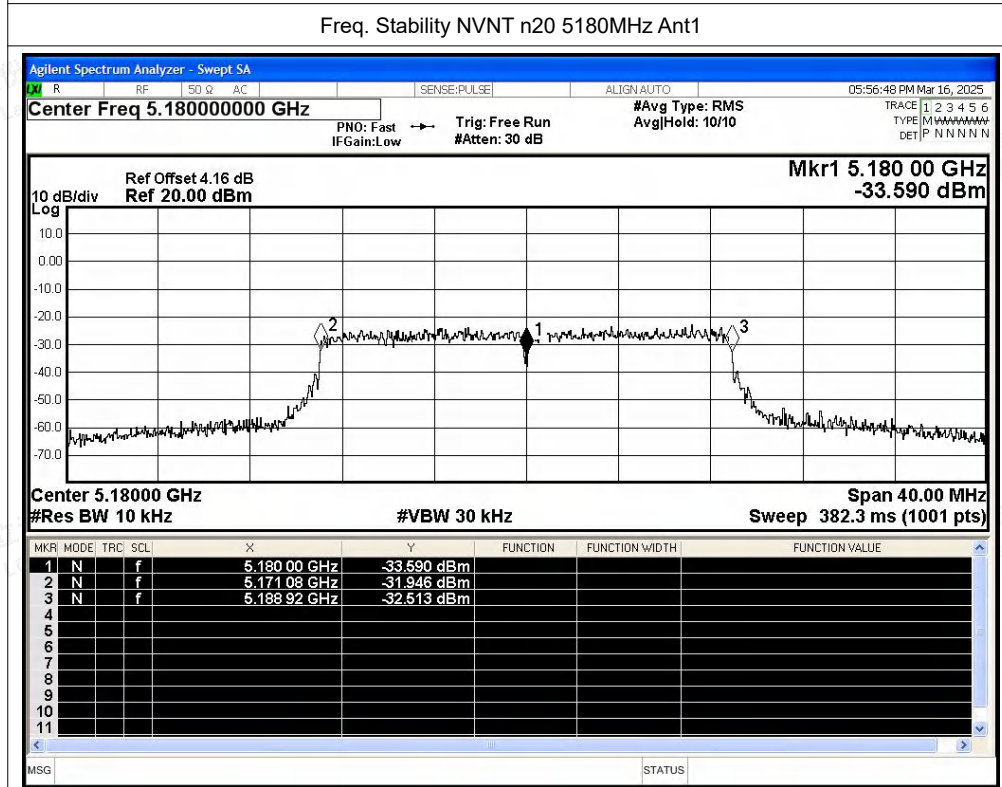
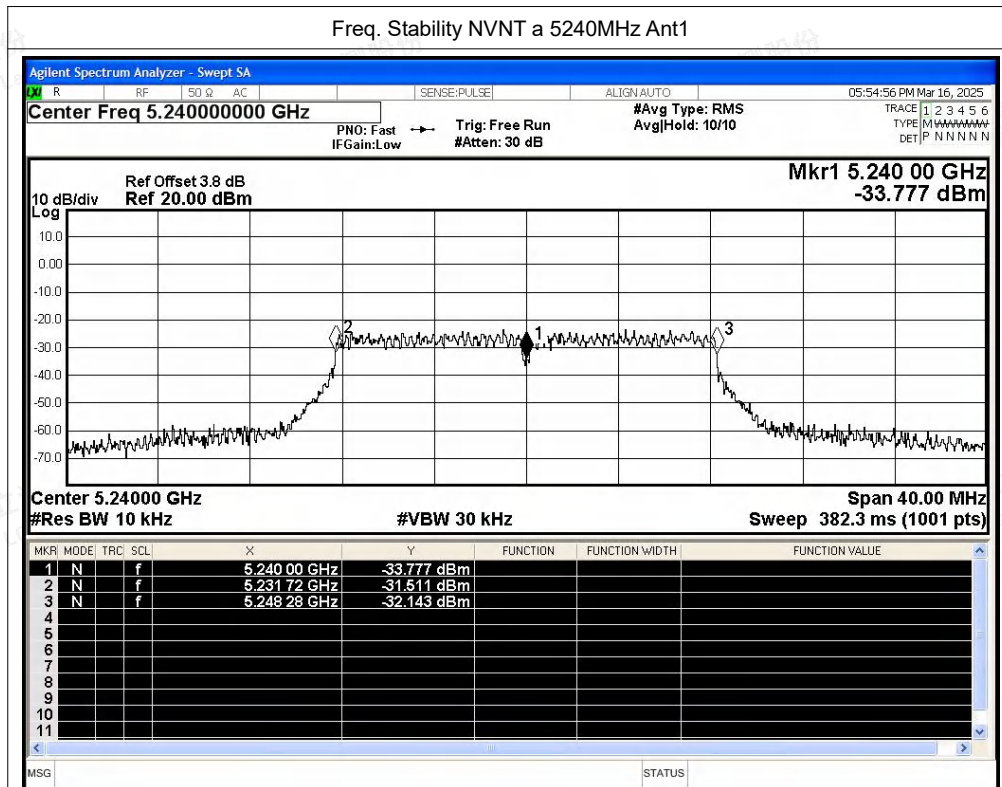
Test Graphs

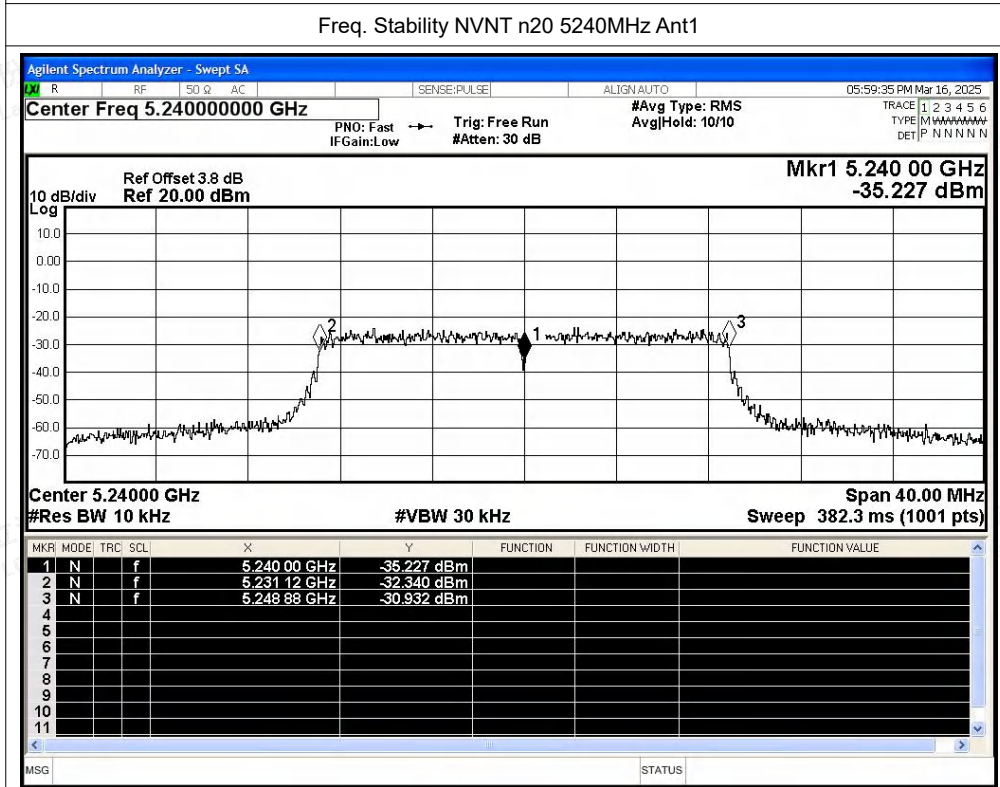
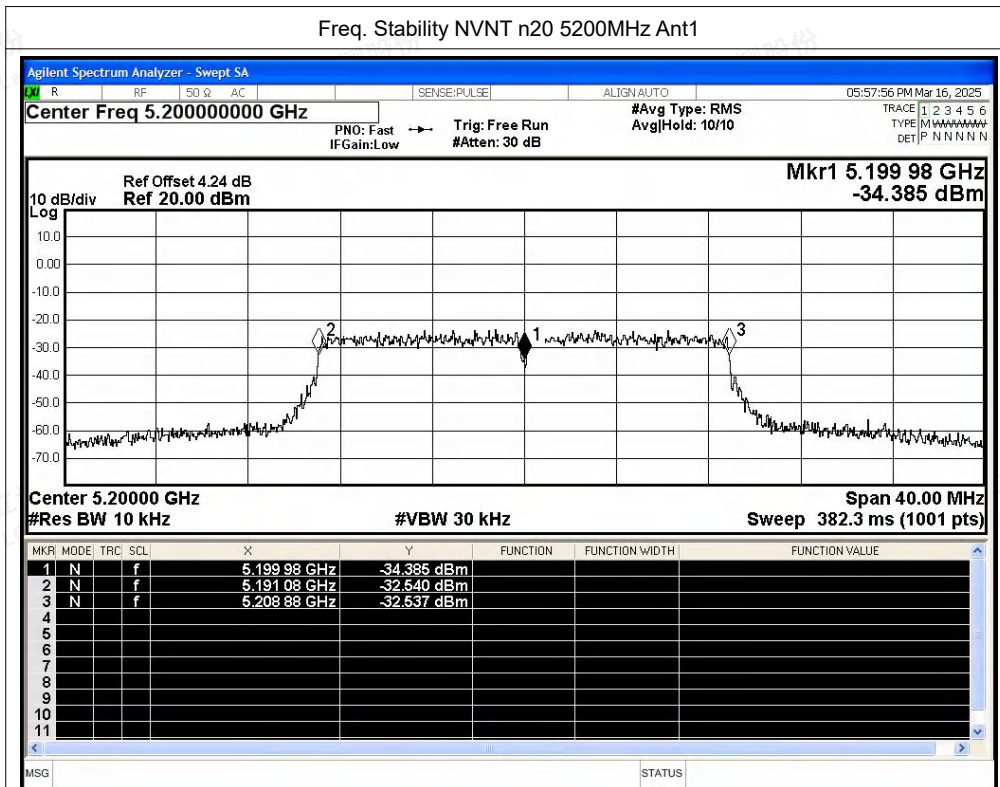
Freq. Stability NVNT a 5180MHz Ant1

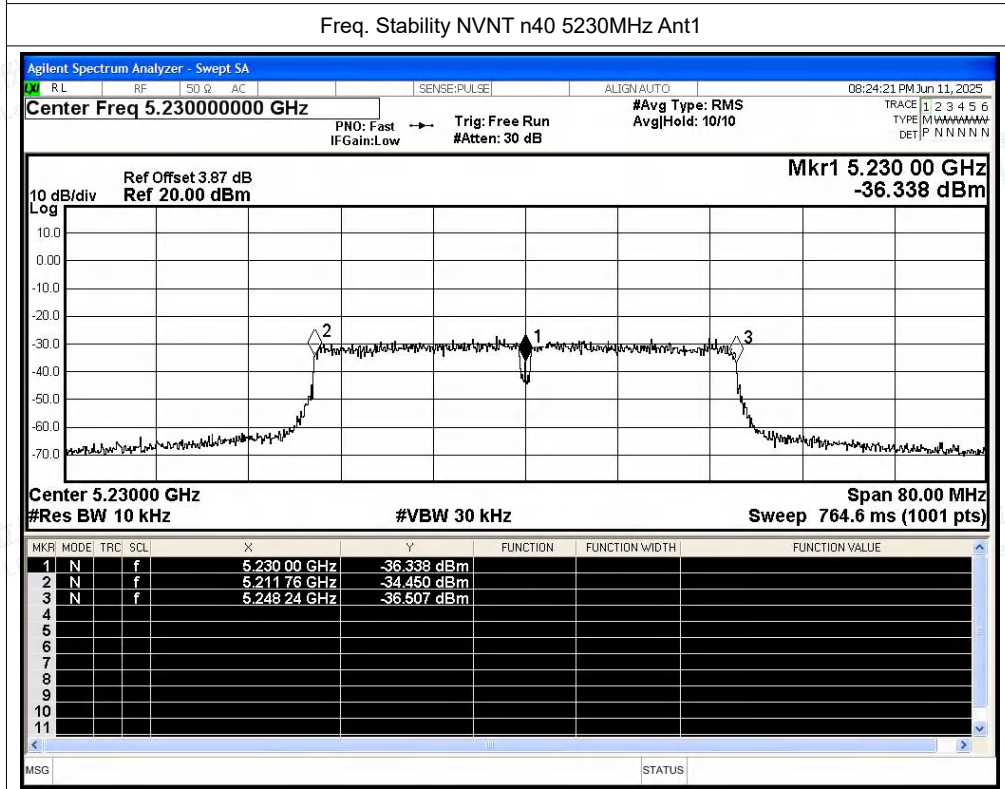
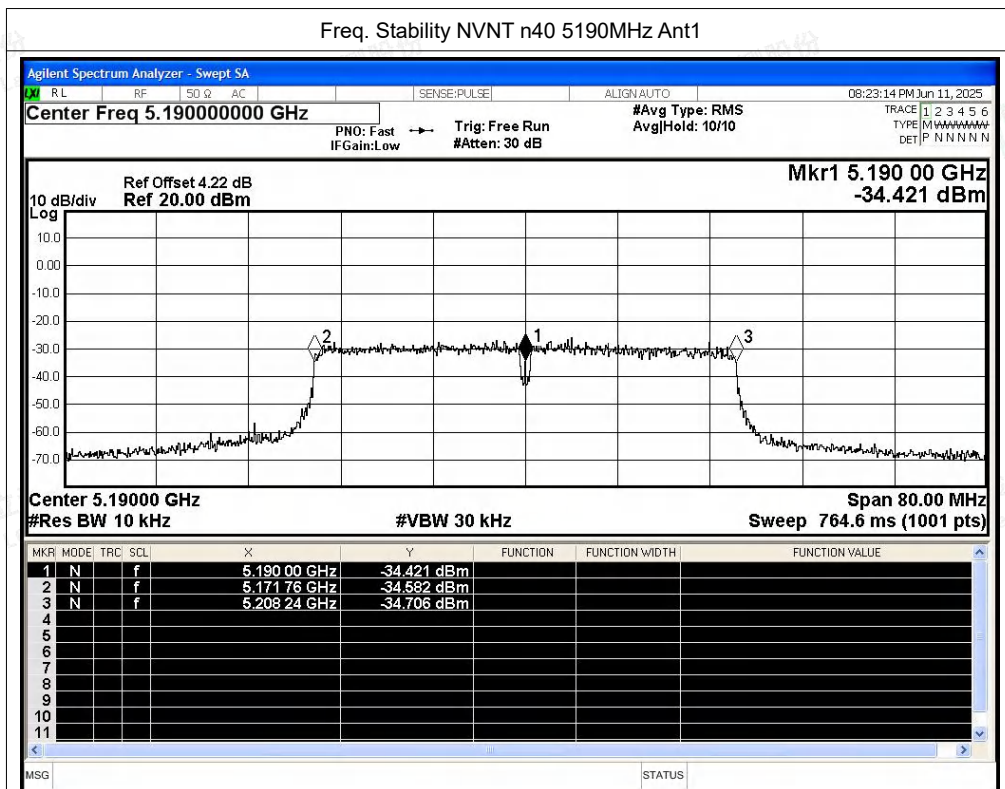


Freq. Stability NVNT a 5200MHz Ant1











D.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	94.56	0.24	0.91
NVNT	a	5200	Ant1	94.56	0.24	0.91
NVNT	a	5240	Ant1	94.56	0.24	0.91
NVNT	n20	5180	Ant1	97.29	0.12	0.44
NVNT	n20	5200	Ant1	97.25	0.12	0.44
NVNT	n20	5240	Ant1	97.25	0.12	0.44
NVNT	n40	5190	Ant1	94.71	0.24	0.9
NVNT	n40	5230	Ant1	94.62	0.24	0.9

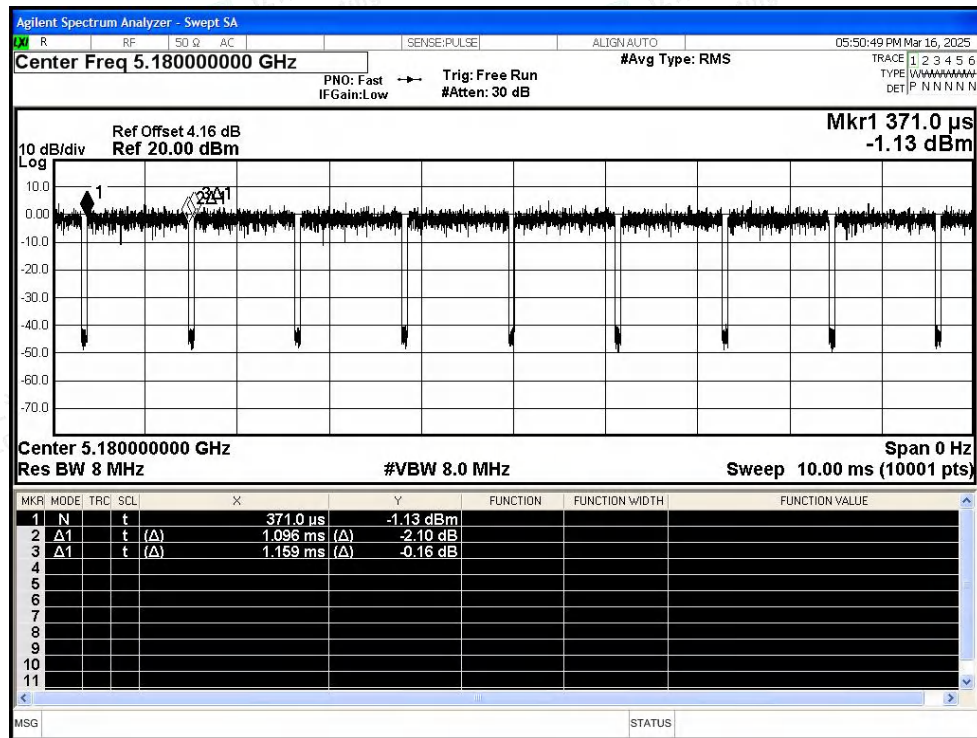


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Test Graphs

Duty Cycle NVNT a 5180MHz Ant1



Duty Cycle NVNT a 5200MHz Ant1

